



1x9 155M Multimode Transceiver

Features	Applications
High Quality 850nm VCSEL Fully Compliant with ITU-T G.957, G.958 PECL Logic Interface Compliant with Telcordia GR-468-CORE Single +5.0V Power Supply	Fast Ethernet SONET/SDH System ATM

Specifications**Electrical and Optical Characteristics(Condition: $T_a=T_{op}$)**

Parameter	Symbol	Min.	Typical	Max.	Unit
Data Rate	B	--	155	--	Mb/s
Center Wavelength	λ_c	830	850	860	nm
Output Spectral Width	$\Delta \lambda$	--	--	0.85	nm
Output Optical Power*	P_0	-10	--	-3	dBm
Extinction Ratio	E.R.	10	--	--	dB
Operating Current	I_{cc}	--	60	80	mA
Operating Voltage	V_{cc}	+4.75	+5	+5.25	V
Input Voltage-Low	V_{IL}	-1.810	--	-1.475	V
Input Voltage-High	V_{IH}	-1.165	--	-0.880	V
Rising Time	T_r	--	1	3.0	ns
Falling Time	T_f	--	1	3.0	ns
Operating Wavelength	λ	--	850	--	nm
Receiver Sensitivity	P_{min}	--	--	-24	dBm
Maximum Optical Power	P_{max}	-3	--	--	dBm
Operating Current	I_{cc}	--	70	100	mA
Supply Voltage	V_{cc}	+4.75	--	+5.25	V
LOS Output-Low	V_{IL}	-1.810	--	-1.475	V
LOS Output -High	V_{IH}	-1.165	--	-0.880	V
LOS Asserted (H-L)	PD	--	--	-28	dBm
LOS Deasserted (L-H)	PA	-40	--	--	dBm

*Measure the average power coupled into 62.5/125um, 0.275NA graded index Multi-Mode fiber.





LP Technical Development Ltd

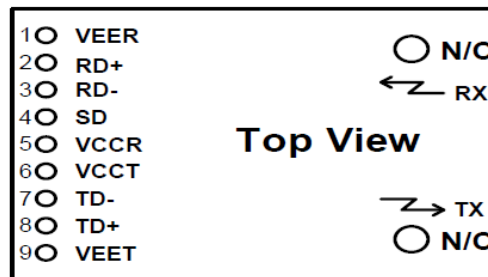
Absolute Maximum Ratings(TC=25°C)

Parameter	Symbol	Min.	Max.	Unit
Storage Temperature	T _{ST}	-40	+85	C
Supply Voltage	V _{CC}	0	+6	V
Input Voltage	V _{IN}	0	V _{CC}	V
Soldering Temperature & Time	--	--	240/10	C /S

Recommended Operating Environment

Parameter	Symbol	Min.	Typical	Max.	Unit
Supply Voltage	V _{CC}	+4.75	+5.0	+5.25	V
Operating Temperature	T _{OP} (Commercial grade)	0	--	+70	C
	T _{OP} (Industrial grade)	-40	--	+85	C

Pin Description



Pin	Name	Level	Description
1	V _{EE} R		Negative power of receiver section, normally grounded
2	RD+	PECL	Receiver Data Output
3	RD-	PECL	Inverted Receiver Data Output
4	SD	PECL	Optical alarm of receiver section,High level when normal, low level when no light
5	V _{CC} R		Positive power of receiver section, normally +5.0V
6	V _{CC} T		Positive power of transmitter section, normally +5.0V
7	TD-	PECL	Inverted Transmitter Data input
8	TD+	PECL	Transmitter Data input
9	V _{EE} T		Negative power of transmitter section, normally grounded

Ordering Information

TRAN	Packaging	Data Rate	Wave length	Connector	Operation Temperature	Operation Voltage	SD Interface
TRAN	1x9 SFP	155M 1.25G	1310 850	SC/PC ST/PC	1=0 ~ +70 C 2=-4 ~ +85 C	5= +5V 3= +3.3V	P=PECL T=TTL